Product Bulletin

For Distribution To:
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Date: **January 16, 2013**

RE: CER-1 & CER-2 Disinfectant Dumping and Reservoir Overfill

The purpose of this Product Bulletin is to outline the possible and confirmed causes of disinfectant dumping and reservoir overfill, along with ways to avoid these causes.

KNOWN CAUSES FOR DISINFECTANT DUMPING

1. Incorrect Button Selection:

We have demonstrated in testing that pressing the wrong buttons on the control panel during certain phases of the reprocessing cycle in the CER systems will cause disinfectant to be dumped down the drain. The specific circumstances are…

a) The machine alarms during the HLD fill period and the following (incorrect) button sequence is pressed:
- The **[STOP]** button is pressed,
- Either the **[FULL]** or **[LCG/RINSE]** button is lit, and
- the [START] button is pressed.

Result of this action: This will restart the CER unit beginning with the wash cycle, meaning that fresh rinse water is added to the disinfectant already in the basin. Water will continue to be added until the proper level is reached. The wash cycle will then be completed and the fluid in the basin, which now includes diluted disinfectant, will be dumped down the drain. This results in an unintended loss of disinfectant from the reservoir.

b) The CER has stopped with an error or for an unexplained reason, and the basin is found to be filled with disinfectant and the following button sequence is pressed:
- The **[MANUAL]** button is pressed,
- the **[DRAIN]** button is then selected, and
- the **[START]** button is pressed.

Result of this action: Disinfectant in the basin will be dumped down the drain.

2. Restricted draining of disinfectant:

Restriction to the tubing which drains disinfectant back to the disinfectant reservoir basin can be caused by a kink in the tubing, or a disinfectant reservoir which has been installed at a level equal to, or higher than the basin drain. A partial or full occlusion of the drain screen in the CER basin will also restrict flow out of the basin.

Result of these situations: At the end of the disinfectant cycle, a volume of disinfectant may remain in the basin because it is unable to completely drain back to the HLD reservoir in the time allowed by the software. The disinfectant cycle will subsequently be completed and the fluid in the basin, which now includes some disinfectant, will be dumped down the drain.

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Product Bulletin

KNOWN CAUSES FOR RESERVOIR OVERFILL

1. Incorrect Button Selection

We have demonstrated in testing that pressing the wrong buttons on the control panel during certain phases of the reprocessing cycle in the CER systems will cause the disinfectant reservoir to overflow. The specific circumstance is…

The basin is filled with rinse water, the disinfectant reservoir is filled with disinfectant and the following (incorrect) button sequence is pressed:

- The **[MANUAL**] button is pressed,
- the **[LCG/OUT]** button is pressed, and
- the **[START]** button is pressed.

Result of this action: This will immediately return the water in the basin to the disinfectant reservoir causing the reservoir to overflow because of the additional volume of solution being added.

2. Restricted waste drain:

Flow of the waste drain can be restricted by a basin drain screen that is completely or partially blocked, waste drain tubing that is kinked, or a facility drain that is inadequate to handle intermittent peak drainage loads.

Result of these situations: Rinse water will remain in the basin at the conclusion of the rinse water dump cycle. When the CER system moves to the next cycle phase, a reduced volume of disinfectant will be fed from the disinfectant reservoir to the basin to achieve the correct fill level; at the conclusion of this cycle phase, the disinfectant (now including the added volume of water) will be returned to the disinfectant reservoir, which will be unable to accommodate the additional volume of diluted disinfectant. This will cause the disinfectant reservoir to overflow.

PREVENTING DISINFECTANT DUMPING and RESERVOIR OVERFLOW

1. Operators should always follow the instructions in the User Manual to ensure correct button operation.

It is particularly important to note that the **[STOP]** button should not be used to reset the CER system following an alarm. Use of the **[ALARM RESET]** button, followed by the correct manual selections to return the machine to an idle state (as outlined in the User Manual) must be used.

2. During the installation, and thereafter, it is critical to verify that the disinfectant reservoir and facility waste drain are at least 12 inches lower than the base of the CER unit, that all hoses are correctly connected and able to flow freely with no kinks in the hoses, and that the facility waste drain is adequately vented.

3. During routine operation it is important to ensure that the drain screen is properly cleaned and that the facility's waste drain is free of blockages.

For additional information please contact customer support at #800-444-4729 or your local MEDIVATORS representative.